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FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		88888888 88888888 88 88 88 88 88 88 88 88 88 88 888888	LL	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	\$		\$
LL LL LL LL LL LL LL LL LL LL LL LLLLLL		\$						

FALBLDSTS - BUILD DAP STATUS MESSAGE 16-SEP-1984 01:38:54 VAX/VMS Macro V04-00 Page 0

(2) 48 DECLARATIONS
(3) 75 FALSENCODE_STS - BUILD DAP STATUS MESSAGE

FAL VO4

(1)

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16-SEP-1984 01:38:54 VAX/VMS Macro V04-00 Page 5-SEP-1984 01:16:31 [FAL.SRC]FALBLDSTS.MAR;1
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.TITLE FALBLDSTS - BUILD DAP STATUS MESSAGE .IDENT 'V04-000' ŎŎŎŎ 0000 0000 0000 0000 COPYRIGHT (c) 1978, 1980, 1982, 1984 BY 0000 DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. 0000 9 0000 ALL RIGHTS RESERVED. 10 ; * 0000 11 :* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER 0000 12 * 0000 0000 COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY 0000 15 :* 0000 OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY 0000 16 ;* TRANSFERRED. 17 :* 0000 THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 0000 18 :* 19 :* 0000 0000 0000 0000 DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS 0000 0000 0000 0000 0000 0000 0000 0000 : facility: FAL (DECnet File Access Listener) 0000 32 33 0000 Abstract: This module builds the DAP Status message. 0000 0000 Environment: VAX/VMS, user mode 35 0000 36 37 0000 Creation Date: 16-JUN-1977 Author: James A. Krycka, 0000 38 : 39 : 0000 Modified By: 0000 0000 40 : V03-002 JAK0137 J A Krycka 12-MAR-1984 0000 41 Use \$CHECK_STATUS instead of \$CHECK_SS and other minor cleanup. 42 0000 0000 V03-001 JAK0104 15-MAR-1983 J A Krycka If logging in enabled, omit display of DAP status code that is 0000 0000 45 equivalent to RMS\$_EOf.

Page

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- BUILD DAP STATUS MESSAGE DECLARATIONS
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16-SEP-1984 01:38:54 VAX/VMS Macro V04-00 5-SEP-1984 01:16:31 [FAL.SRC]FALBLDSTS.MAR;1

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VAX/VMS Macro V04-00

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```
132
133
134
     0000
                          None
     0000
     0000
             135
                   Side Effects:
            136
137
     0000
     0000
                          None
     0000
             138 :
     0000
            139 ;--
     0000
            140
            141 FALSENCODE_STS::
     0000
                                                               : Control point
     0000
            142
                          ASSUME DAPS PENDING EQ 0
ASSUME DAPS SUCCESS EQ 1
ASSUME DAPS UNSUPPORT EQ 2
ASSUME DAPS FILE OPEN EQ 4
ASSUME DAPS FILE XFER EQ 5
     0000
     0000
             144
     0000
             145
     0000
             146
     0000
             147
                                   DAPS WARNING EQ 6
DAPS FILE CLOS EQ 7
     0000
            148
                          ASSUME
     0000
            149
                          ASSUME
     0000
            150
                          ASSUME
                                   DAPS_FORMAT EQ 8
     0000
             151
                          ASSUME DAPS INVALID EQ 9
            152
     0000
                          ASSUME DAPS_MSG_SYNC EQ 10
     0000
            154
     0000
            155
     0000
                   Examine DAP MACCODE parameter to determine which class of message it is.
            156 :
     0000
     0000
            157
     0000
            158
                          $CASEB SELECTOR=R2,-
                                                                 MACCODE:
            159
     0000
                                   DISP! =<-
                                        FILE ACCESS-
     0000
            160
                                                                  file operation pending
     0000
                                        FILE ACCESS-
            161
                                                                  File operation successful
    0000
                                        PROTOCOL-
            162
                                                                  Request not supported
    0000
            163
                                        BUG-
                                                                  Undefined value
    0000
                                        FILE ACCESS-
            164
                                                                  Errors related to opening a file
    0000
            165
                                        FILE_ACCESS-
                                                                  Errors related to file transfer
    0000
            166
                                        BUG-
                                                                  Undefined value
                                        FILE ACCESS-
    0000
            167
                                                                  Errors related to closing a file
                                        PROTOCOL-
    0000
            168
                                                                  Incorrect message format
    0000
            169
                                        PROTOCOL-
                                                                  Invalid field välue
            170
    0000
                                        MSG_OUT_OF_SEQ-
                                                                  Unexpected message for state
     0000
            171
     001A
            172 BUG:
                                                                  Fall thru ...
     001A
            173
            174
     001A
            175 :
     001A
                   Process file access error. perform RMS-to-DAP status code look-up to obtain
            176
     001A
                   DAP MICCODE value.
            177
     001A
            178 :
     001A
                   Note: If the RMS code does not match, a DAP MICCODE of zero is returned
            179
     001A
                          which means unknown type of error.
            180:
     001A
            181
     001A
            182 FILE_ACCESS:
     001A
                                   R1,R5
W^FALSRMS_TO_DAP,R1
            183
    001A
                          MOVL
                                                                 Save STV value in R5
DE
    001D
                          MOVAL
                                                                 Get conversion table address
B1
13
    0022
            185 10$:
                                   R0,(R1)+
                          CMPW
                                                                 Does RMS code match?
    0025
                          BEQL
                                   20$
            186
                                                                 Yes, finish up
B5
12
    0027
             187
                          TSTW
                                    (R1)+
                                                                 Is this end of table?
     0029
             188
                                   10$
                          BNEQ
                                                               : No, try again
```

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- BUILD DAP STATUS MESSAGE	16-SEP-1984 01:38:54	VAX/VMS Macro VO4-00	Page
FALSENCODE_STS - BUILD DAP STATUS MESSAG	5-SEP-1984 01:16:31	[FAL.SRC]FALBIDSTS.MAR:1	
30 0028 189 20\$: MOV7WI (R1) R0		e equivalent DAP status code	

		50 67	1 3C A 11	002B 189 002E 190 0030 191	20\$: MOVZW BRB	L (R1),RO ADD_MACCODE	; Store equivalent DAP status code ; Continue
				0030 192 0030 193 0030 194		E value for DAP protoc	col error.
50	06	06 51 03	1 FO 3 11	0030 197	PROTOCOL: INSV BRB	R1,#6,#6,R0 ADD_MACCODE	Add message type to field id ; Continue
				0037 200 0037 201 0037 202 0037 203	: Get MICCODE	value for message-out	:-of-sequence error.
		50 5	1 DO	0035 198 0037 200 0037 201 0037 202 0037 203 0037 204 0037 205 003A 207 003A 208 003A 209 003A 210 003A 211	MSG_OUT_OF_SE MOVL	Q: R1,R0	; MACCODE = message type value
				003A 207 003A 208 003A 209 003A 210	: Combine MAC	CODE value with MICCOD	E value to form DAP status code.
50	04	0C 52 54 50	2 F0 0 00	003A 212	ADD_MACCODE: INSV MOVL	R2,#12,#4,R0 R0,R4	; Assemble DAP status code in bits 00-15 ; and save value in R4
				0042 216 0042 217	: Begin const	ructing the Status mes	ssage.
		50 09 FFB8 83 54	8 30 8 30	0042 218 0042 219 0042 220 0045 221 0048 222 0048 223	SEND STS:	#DAP\$K_STS_MSG,RO FAL\$BUILD_READ R4,(R3)+	Get message type value Construct message header Store status code field
				004B 226	; The require ; Now assembl	d fields have been ass e the optional fields	embled (header plus STSCODE). (RFA, RECNUM, and STV) as requested.
				004B 227 004B 229 004B 230 004B 231 004B 233 004B 233 004B 235 004B 235 004B 235 004B 235	Note: If FA If FA If FA Final	L\$V_RET_RFA is set, t	then get value from RAB\$L_BKT. then get value from RAB\$L_RFA0 and RAB\$W_RFA4. then get value from R5. ts.
				004B 233 004B 234 004B 235	ASSUM ASSUM		
		04 28 AS		004B 236 004B 237 004D 238 0050 239	BBS \$CLRB	#DAP\$V_RANRFA,- DAP\$Q_5YS(AP(R9),10 IT #FAL\$V_RET_RFA,(R8)	; Branch if partner supports ; access by RFA ; Disable request to return RFA
50	68	03 19	0 13	0054 240 0059 241 005B 242	10\$: FXT7V	WFALSV_RET_RFA,W3,(R8),R0 ; Branch if RFA, RECNUM, and STV ; are not wanted
	0 (F (83 68 19 83 06	3 94 9 E5 6 90	0059 241 005B 242 005B 243 005D 244 0061 245	CLRB BBCC MOVB	(R3)+ #FAL\$V_RET_RFA,(R8) #6,-1(R3)	; Assume RFA is not wanted

					- BU FAL\$	ILD DAP ENCODE_	STAT	US MES!	SAGE DAP STAT	16-SEP-1984 01:3 US MESSAG 5-SEP-1984 01:3	38:54 VAX/VMS Macro VO4-00 Page 16:31 [FAL.SRC]FALBLDSTS.MAR;1	(3)
50	83 83 68	02		AB AB 1 A 1 7	DO BO EF 13	0065 0069 006D 0072 0074	246 247 248 249	20\$:	MOVL MOVW EXTZV BEQL	RAB\$L_RFAO(R11),(R3)+ RAB\$W_RFA4(R11),(R3)+ WFAL\$V_RET_RECN,#2,(R8), 40\$; branch it kethum and SIV	
	04 51 06		38 FF	7F' 1B 55	045005000 050000	0074 0076 007A 007E 0081 0085 0088 008B	251 255 255 255 255 255 255 255 255 255	30 \$:	CLRL BBCC MOVL BSBW BBCC MOVL BSBW BSBW	R1 #FAL\$V_RET_RECN,(R8),30\$, RAB\$L_BKT(R11),R1 FAL\$CVT_BN4_IMG #FAL\$V_RET_STV,(R8),40\$ R5,R1 FAL\$CVT_BN4_IMG FAL\$BUIED_TAIL	; Get bucket value to use for RECNUM ; Store RECNUM as an image field	
	29 1095 5027			20 54 22 54 18	E1 B1 13 B1 13	008E 008E 008E 008E 0097 0097 009E 00A0	259 261 2661 2664 2667 2667 2671 277	Outpo	BBC CMPW BEQL CMPW BEQL SFAO_S	R4, #*XT095 50\$ R4, #*X5027 50\$ CTRSTR=W*FAL\$GQ_STATUS= OUTLEN=W*FAL\$GW*PRTLEN1=	Branch if logging disabled Omit display if DAP status code is equivalent to RMS\$_SUC Omit display if DAP status code is equivalent to RMS\$_EOF Format the error message	
			FF	45'	30 05	00A0 00A0 00B5 00B8 00BB 00BC	271 272 274 275 276 277	50\$:	\$CHECK_ BSBW RSB .END	FALSPRINT_FAO	DAP status word Check status code Print message Exit End of module	

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FALBLDSTS

Symbol table

16-SEP-1984 01:38:54 VAX/VMS Macro V04-00 5-SEP-1984 01:16:31 [FAL.SRC]FALBLDSTS.MAR;1 00000000 RG ****** ****** *******

00001980

00001A00

= 0000008 = 0000003A R 0000003A R 00000035 00000047 00000045 00000031 00000031 00000032 00000032 00000046 00000046 00000046 00000046 = 00000048 = 00000048 = 00000048 = 00000040 **\$\$COUNT** FALSE TOPREST TO THE STALL SERVING TO THE STALL SERVING TO THE STALL SERVING THE SERVING T \$\$12 ADD_MACCODE BUG DAPSB BITCHT
DAPSB DECVER
DAPSB ECONUM
DAPSB FLESYS
DAPSB FLAGS
DAPSB LEN256
DAPSB LENGTH
DAPSB OSTYPE
DAPSB OSTYPE
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB USRNUM
DAPSB USRNUM
DAPSB USRNUM
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMID
DAPSB STREAMING
DAPSB STREAMID
DAPSB STREAMID 00002000 00000074 00000070 00000320 00000200 00000800 000002F4 000001F8 00001000 00001000 00000078 00000294 00000850 000001FC 00000340 00000250 = 000000040 00000050 = 00000010 000003B0 = 000000080 00000060 00000050 00000000 00000028 000003A4 00000038 000003F4 = 0000000A000000A8 00000040 000000AC 000000A4 00000040 ****** 02 X = 00000007 = 00000004 = 00000005 = 00000008 = 00000000 0000050 00000088 00000090 0000000 00000038 00000030 = 00000000 00000040 = 00000001 00000020 = 00000002 00000064 = 00000006 00000008 ****** 00000098 ****** 000003F8 000001F6 00000080 000001F5 00000048 000001F4 00000028 00000006 ****** X 02 00000005 00000100 00000004 00001F00 00000007 00000500 000001F7 00000A00 00000012 00001000 00000400 00000010 00000900 00000700 *****

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FALBLDSTS
                                                                  - BUILD DAP STATUS MESSAGE
 Symbol table
FALST_PRTBUF2
FALST_RESULT
FALST_RESULT2
FALST_SYSNET
FALST_VOLNAME
FALSV_LOG_NAM
FALSV_RET_RECN
FALSV_RET_RECN
FALSW_DAPBUFSIZ
FALSW_DISPLAY
FALSW_DISPLAY
FALSW_UNCHN
FALSW_MBXCHN
FALSW_RECEIVED
FALSW_USE_DBS
FALSW_USE_SYS
FILE_ACCESS
MSG_OUT_OF_SEQ
PROTOCOL
RABSL_BKT
                                                                    00001B00
                                                                    00000600
                                                                    00000B00
                                                                    00001000
                                                                    00001E00
                                                                = 00000020
                                                                = 0000001A
                                                                = 00000019
                                                                = 0000001B
                                                                    0000001A
                                                                    00000070
                                                                    00000010
                                                                    0000001E
                                                                    00000018
                                                                    00000072
                                                                    000000A0
                                                                    000000A2
                                                                    0000001A R
                                                                    00000037 R
                                                                    00000030 R
RAB$L_BKT
RAB$L_RFAO
RAB$W_RFA4
SEND_STS
SYS$FAO
                                                                = 00000038
                                                                = 00000010
                                                                = 00000014
                                                                    00000042 R
```

! Psect synopsis!

PSECT name	Allocation		Attributes			
. ABS . \$ABS\$ FAL\$CODE	00000000 (0.) 00002000 (8192.) 000000BC (188.)	00 (0.)	NOPIC USR CON NOPIC USR CON	ABS LCL N	IOSHR NOEXE NORD IOSHR EXE RD IOSHR EXE RD	NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.04	00:00:01.13
Command processing Pass 1	105 225	00:00:00.38 00:00:04.29	00:00:01.85 00:00:19.27
Symbol table sort Pass 2	0 63	00:00:00.49 00:00:00.84	00:00:00.95 00:00:02.40
Symbol table output	17	00:00:00.07	00:00:00.25
Psect synopsis output Cross-reference output	Ó	00:00:00.01 00:00:00.00	00:00:00.01 00:00:00.00
Assembler run totals	443	00:00:06.12	00:00:25.86

The working set limit was 1050 pages. 31830 bytes (63 pages) of virtual memory were used to buffer the intermediate code. There were 30 pages of symbol table space allocated to hold 532 non-local and 9 local symbols. 277 source lines were read in Pass 1, producing 13 object records in Pass 2. 20 pages of virtual memory were used to define 18 macros.

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FALBLDSTS VAX-11 Macro Run Statistics

- BUILD DAP STATUS MESSAGE

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! Macro library statistics !

Macro library name

Macros defined

\$255\$DUA28:[FAL.OBJ]FAL.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

15

698 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$: FALBLDSTS/OBJ=OBJ\$: FALBLDSTS MSRC\$: FALBLDSTS/UPDATE=(ENH\$: FALBLDSTS)+LIB\$: FAL/LIB

FAL VO4

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